



FAG

23230-E1-XL-K-TVPB-C3

Spherical Roller Bearing

Spherical roller bearings 232...-E1-K, main dimensions to DIN 635-2, with tapered bore, taper 1:12

X-life

Technical information



Your current product variant

Design	E1	Without central rip
Bore type	K	Tapered, taper 1:12
Cage	TVPB	Plastic cage
Radial internal clearance	C3 (Group 3)	Internal clearance larger than CN
Relubrication	Standard	

Main Dimensions & Performance Data

d	150 mm	Bore diameter
D	270 mm	Outside diameter
B	96 mm	Width
C_r	1.280.000 N	Basic dynamic load rating, radial
C_{0r}	1.660.000 N	Basic static load rating, radial
C_{ur}	133.000 N	Fatigue load limit, radial
n_G	2.400 1/min	Limiting speed
n_{gr}	1.400 1/min	Reference speed
$\approx m$	21,842 kg	Weight



Mounting dimensions

$d_{a \min}$	164 mm	Minimum diameter shaft shoulder
$D_{a \max}$	256 mm	Maximum diameter of housing shoulder
$r_{a \max}$	2,5 mm	Maximum recess radius
$B_{a \min}$	20 mm	Minimum cavity width of the sleeve
$d_{a \max}$	174 mm	Maximum diameter of shaft shoulder
$d_{b \min}$	163 mm	Minimum cavity diameter of the sleeve

Dimensions

r_{\min}	3 mm	Minimum chamfer dimension
D_1	232,6 mm	Bore diameter outer ring
d_2	174 mm	Raceway diameter of the inner ring
d_s	6,3 mm	Diameter lubrication hole
n_s	12,2 mm	Width of lubricating groove

Temperature range

T_{\min}	-30 °C	Operating temperature min.
T_{\max}	120 °C	Operating temperature max.

Calculation factors

e	0,33	Limiting value of F_a/F_r for the applicability of diff. Values of factors X and Y
Y_1	2,02	Dynamic axial load factor
Y_2	3	Dynamic axial load factor
Y_0	1,97	Static axial load factor

Additional information

H2330	Adapter sleeve
AHX3230G	Withdrawal sleeve



Characteristics



Radial load



Axial load in one direction



Axial load in two directions



Grease Lubrication



Oil Lubrication



Not sealed



Static angular error and misalignment



Dynamic angular error and misalignment